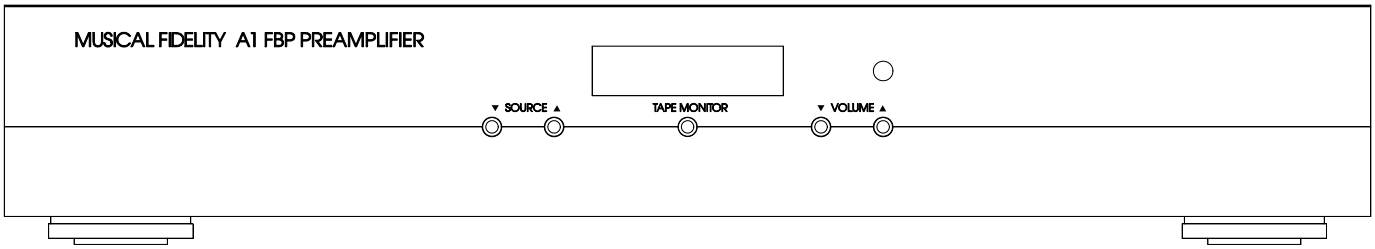
A1 FBP

A1 SERIES PRE-AMPLIFIER WITH BALANCED INPUTS AND OUTPUTS



INSTRUCTIONS FOR USE

Thank you for purchasing the Musical Fidelity A1 FBP (Fully Balanced Preamplifier).

This preamplifier uses our top quality, finely tuned preamplifier circuits to deliver the absolute best in audio quality with no listener fatigue.
The unit also features two fully balanced signal inputs, which allow direct connection to balances sources and outputs for the ultimate in dynamic range and low-noise performance. The power supply and associated mains transformer are supplied in a separate, matching enclosure to isolate the sensitive preamplifier circuits from mains noise and interference
This results in an astounding improvement in musicality and tonal neutrality and visually pleasing two-box setup

The A1 FBP is designed to be partnered with all current and future A1 products, as well as our supercharger range. The A1 FBP is a perfect preamplifier for the 550K or 750K superchargers, and was designed with this in mind. It can be connected to the line level inputs of the Superchargers as a normal preamplifier. This combination yields one of the best amplification systems available at any price.

Used properly and carefully, it should give many years of outstanding musical reproduction.

Dust regularly with a soft duster or soft brush, but be careful when using cleaning or polishing agents - they may harm the surface finish.

If you have any questions about your audio system,
Please consult your dealer who is there to help and advise.

MUSICAL FIDELITY

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IMPORTANT! ***(U.K. only)***

This unit is supplied in the U.K. with mains lead fitted with a moulded 13 amp plug. If, for any reason, it is necessary to remove the plug, please remove the fuse holder and dispose of the plug safely, out of reach of children.
It must not be plugged into a mains outlet.

The wires in the mains lead supplied with this appliance are coloured in accordance with the following code:

Green and yellow.....Earth
Blue.....Neutral
Brown.....Live

WARNING - This appliance MUST be earthed

As the colours of the wires of the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in the plug, proceed as follows:

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked with the letter E or coloured green or green-and-yellow, or by the earth symbol : ⏚

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

If connecting to a BS1363 plug, a 13 amp fuse must be used.

WARNING:

ANY MODIFICATIONS TO THIS PRODUCT NOT EXPRESSLY APPROVED BY MUSICAL FIDELITY WHO IS THE PARTY RESPONSIBLE FOR STANDARDS COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THIS EQUIPMENT.

INSTALLATION PRECAUTIONS & USER INFORMATION

This new A1 FBP is designed and built to provide trouble-free performance, but as with all electronic devices it is necessary to observe a few precautions:

Heed all warnings shown on the back of the product.

Only connect the A1 FBP to a mains outlet having the same voltage as marked at the back of the unit.

Always ensure that when disconnecting and reconnecting your audio equipment the mains supply is switched off.

Position the mains lead and signal interconnects where they are not likely to be walked on or trapped by items placed on them.

Do not use near water, or place water-filled containers on the A1, for example, a flower vase or potted plants. **If water does spill inside, immediately pull out the mains plug from the wall socket and inform your dealer, who should then check the unit before further use. Entry of liquid into the A1 FBP is dangerous, and may cause electric shock or fire hazard.**

Do not place the unit near direct heat sources such as radiators, direct sunlight or other equipment.

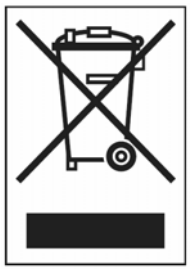
Do not remove any covers or try to gain access to the inside. There are no internal adjustments or fuses you can replace yourself. Refer all service work to an authorised Musical Fidelity agent.

Note: Unauthorised opening of the equipment will invalidate any warranty claim.

Dust regularly with a soft cloth or soft brush but be careful when using cleaning or polishing agents - they may harm the surface finish.

The electronics in modern hi-fi equipment is complex and may, therefore, be adversely affected or damaged by lightning. For protection of the audio system during electrical storms, remove the mains plugs and disconnect any aerial lead.

If after-sales service is required, to help the dealer identify the A1 FBP please quote the serial number located on the rear panel of the unit.



DISPOSAL

The crossed out wheeled bin label that appears on the back panel of the product indicates that the product must not be disposed of as normal household waste. To prevent possible harm to the environment please separate the product from other waste to ensure that it can be recycled in an environmentally safe manner. Please contact local government office or retailer for available collection facilities.

DISPOSITION

La poubelle sur roulettes barrées X, qui apparaît en logo sur le panneau arrière du produit, indique que celui-ci ne doit pas être traité comme un déchet domestique commun. Afin de protéger l'environnement, ce produit électronique devra être géré séparément et donc recyclé selon les nouvelles normes Européennes Rohs concernant les déchets d'appareils électroniques. Prière de contacter les services concernés gouvernementaux ou votre point de vente pour l'élimination et l'enlèvement de déchets électroniques équipés de composants électroniques.

DISPOSAL

La etiqueta cruzada hacia fuera del compartimiento que aparece en el panel trasero del producto indica que el producto no se debe reciclarse como basura normal de la casa. Para prevenir daños posible al ambiente separe por favor el producto de otras basura para asegurarse de que puede ser reciclada de una manera ambientalmente segura. Entre en contacto por favor a su oficina gubernamental local o a su minorista para las instalaciones disponibles de la colección.

RIFIUTI

L'etichetta del cassonetto barrato riportato sul retro dell'apparecchio indica che il prodotto non deve essere smaltito tramite la procedura normale di smaltimento dei rifiuti domestici. Per evitare eventuali danni all'ambiente, separare questo prodotto da altri rifiuti domestici in modo che possa venire riciclato in base alle procedure di rispetto ambientale. Per maggiori dettagli sulle aree di raccolta disponibili, contattate l'ufficio govenativo locale od il rivenditore del prodotto.

FACHGERECHTE ENTSORGUNG:

Das auf der Geräterückseite angebrachte Label deutet darauf hin, dass das Produkt nicht mit konventionellem Hauskehricht entsorgt werden darf. Um Schäden und Verschmutzungen an Umwelt und Mensch zu vermeiden, muss das Produkt fachgerecht entsorgt und von anderem Abfall getrennt werden. Wenden Sie sich bei Fragen hierzu an Ihren Fachhändler oder an eine öffentliche Informationsstelle.

AFVAL

Het label op de achterzijde van dit apparaat, een afvalbak op wielen met een kruis doorgehaald, geeft aan dat dit apparaat niet samen met gewoon huishoudafval mag worden weggegooid. Om mogelijke schade aan onze leefomgeving te voorkomen dient dit apparaat, gescheiden van gewoon huishoudelijk afval, te worden afgevoerd zodat het op een milieuvriendelijke manier kan worden gerecycled. Neem voor beschikbare inzamelplaatsen contact op met uw gemeentelijke reinigingsdienst of met uw elektronica leverancier.

HÄVITTÄMINEN

Yliruksattua jäteastiaa kuvaava tarra tuotteen takalevyssä kertoo, että tuotetta ei saa käsitellä normaalina talousjätteenä. Ympäristön suojelemiseksi on tuote pidettävä erillään muusta jätteestä ja se on kierrätettävä ekologisesti kestävällä tavalla. Ota yhteyttä laitteen myyjään tai Pirkanmaan Ympäristökeskukseen lähimmän kierrätyskeskuksen löytämiseksi.

AFSKAFNING

Logoet med en skraldespand med kryds over på bagsiden af apparatet indikerer at dette produkt ikke må kasseres som normal husholdningsaffald. For at forebygge mulig skade på miljøet, bedes De separere dette produkt fra andet affald, og sikre at det bliver genbrugt på en miljørigtig måde. Kontakt venligst de lokale myndigheder eller din forhandler for oplysning om nærmeste tilgængelige opsamlingssted for elektronikaffald.

ΔΙΑΔΙΚΑΣΙΑ ΑΠΟΡΡΙΨΗΣ

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INTRODUCTION

Congratulations on the purchase of the new A1 FBP (Fully Balanced Preamplifier). The FBP features fully balanced signal paths from input via fully balanced input switches and balanced volume control right the way through to the balanced outputs. This helps to keep noise and interference to an absolute minimum, inherently allowing 6dB more headroom within the circuitry.

The single-ended side features our finely tuned and tweaked preamplifier circuits, for smooth sound coupled with low noise and virtually no distortion. The preamp section includes a top quality low noise phono stage which caters for MM or MC cartridge users. The A1 FBP also features a top quality USB input DAC to allow direct connection to a PC or MAC for listening to MP3/WAV or other digital music storage formats.

Great attention has been paid to internal layout, isolating each circuit section to prevent possible interaction.

The resultant performance achieved by this unit is among the best in the world. It has excellent signal to noise ratio, low distortion, wide bandwidth and dynamic range, with extraordinary resolution and fine detail.

CLEANING

Before cleaning the units, switch off power at the mains switch and remove the mains plug from the wall socket.

Clean the cabinets and remote control unit using a moist cloth. Using solvents, white spirit or thinners is not advised, as they could damage the surface finish.

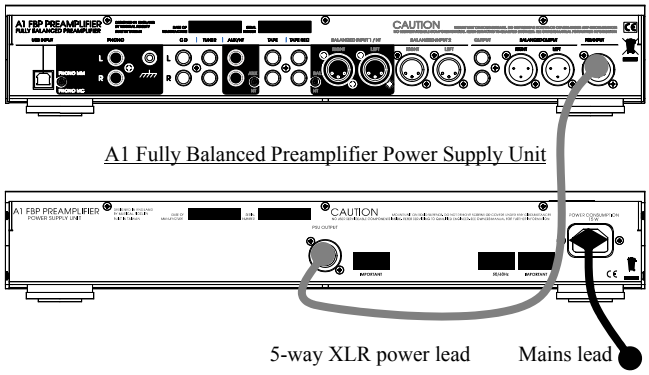
INSTALLATION

Position the A1 FBP and its power supply on a stable, horizontal surface where there is no risk of it being knocked, or subjected to vibration such as from loudspeakers.

POWER CONNECTIONS

The A1 FBP is supplied with a matching power supply, standard IEC mains cable which plugs into the IEC socket at the back of the power supply unit, and a 5-way XLR power lead which connects between the preamp and power supply.

A1 Fully Balanced Preamplifier



A1 Fully Balanced Preamplifier Power Supply Unit

5-way XLR power lead Mains lead

AUDIO CONNECTIONS

Analogue Inputs: Connect all analogue sources to relevant analogue input RCA sockets (see p.7 For more information). Use good quality fully connected (signal and ground) coaxial phono cables for all RCA signal connections.

Fully balanced inputs (XLR) are available for connecting to suitable components. For these, we recommend any good quality straight-through balanced cables.

USB Input: Connect a USB A to B (not supplied) cable between computer and USB input if required.

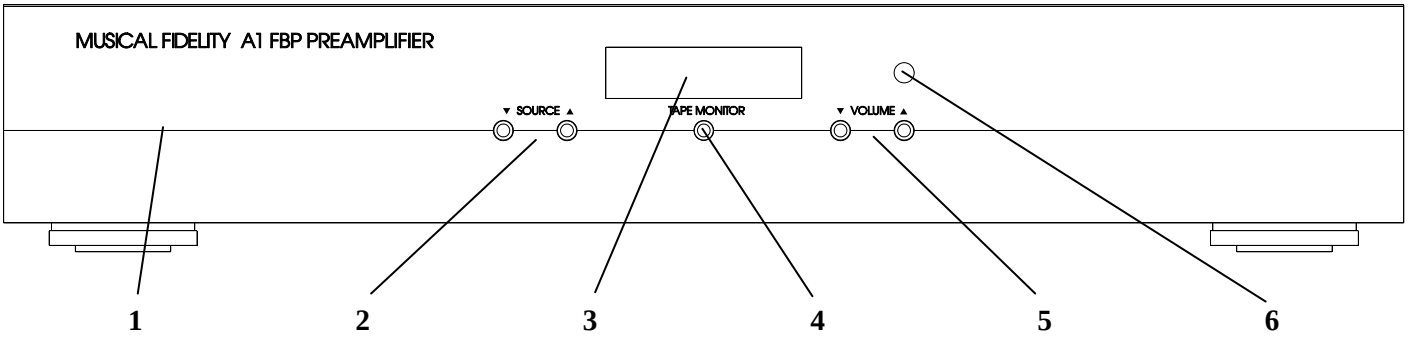
Please note: The USB input is a USB Digital to Analogue Converter (DAC), not a "host controller". It therefore does NOT support direct streaming from USB players, media, drives etc. It only functions with a personal computer/PDA or equivalent attached.

Outputs: Connect power amplifier(s) to the RCA sockets on the back panel marked as **LEFT** and **RIGHT** outputs

Fully balanced outputs are available for connecting to suitable components. For these, we recommend any good quality straight-through balanced cables

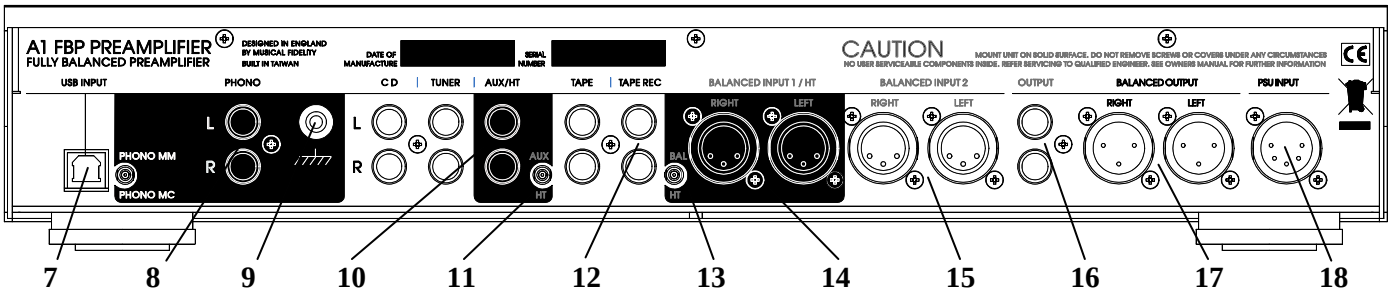
The **TAPE** output allows loop through of analogue signals for example, to pass on to recorder or monitor. It is also the ideal output to connect our headphone amps into.

FBP FRONT PANEL



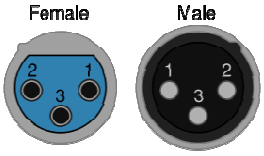
1. **ON/OFF** Button
2. **ANALOGUE, USB INPUT** source selector buttons
3. **DISPLAY**
4. **TAPE MONITOR** button
5. **VOLUME** up/down
6. **IR RECIEVER** lens

FBP REAR PANEL



7. **USB** Input (type ‘B’ socket)
8. **PHONO INPUT** RCA Sockets
9. **PHONO GROUNDING** 4mm post
10. **CD, TUNER, AUX/HT, TAPE INPUT** RCA Sockets
11. **AUX/HT** input configuration switch
12. **TAPE OUTPUT** RCA sockets
13. **BALANCED/HT INPUT 1** input configuration switch
14. **BALANCED INPUTS 1/HT** left and right
15. **XLR BALANCED INPUTS 2** XLR left and right
16. **PREAMP OUTPUT** RCA sockets
17. **BALANCED OUPUTS** XLR left and right
18. **POWER INPUT** XLR from Power Supply Unit

XLR Balanced input and output lead connections:



(for reference only, no XLR signal leads supplied)

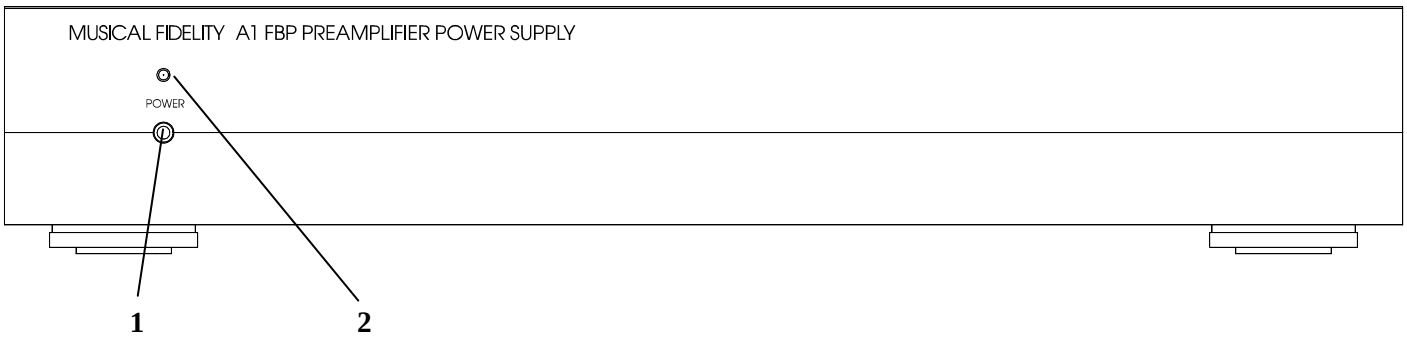
Pin functions:

1 Ground (cable shield)

2 Normal polarity ("hot" or “+”)

3 Inverted polarity ("cold" or “-“)

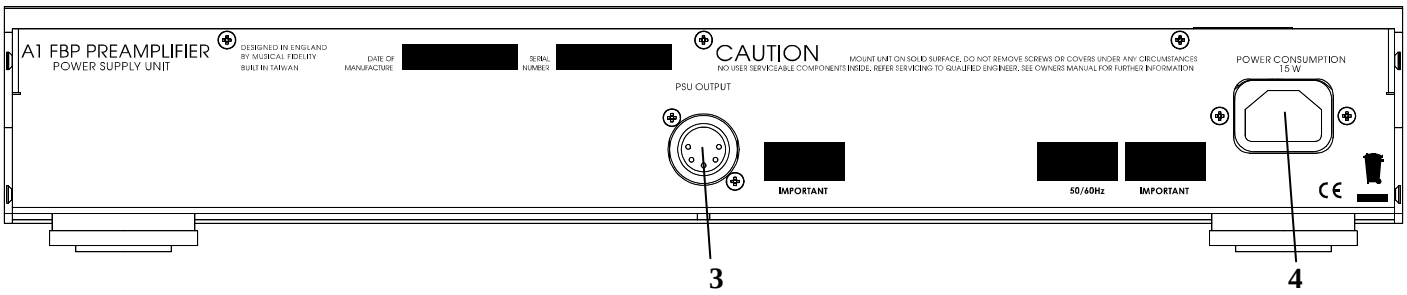
FBP POWER SUPPLY UNIT FRONT PANEL



1. MAINS ON/OFF Button

2. MAINS ON indicator LED

FBP POWER SUPPLY UNIT REAR PANEL



3. SUPPLY OUT XLR socket

4. MAINS INPUT IEC socket

Remote control Handset

The universal remote control shown below enables functions from this and related units to be operated from a convenient distance. Equivalent buttons on the remote control have the same functions as those on the front panel of the unit. Other functions are only available by remote control.

As the handset uses an invisible infra-red light beam, the front edge must be pointed directly towards the receiver window at the front of the player, without visual obstruction between them.

If the range of the remote control greatly decreases, replace the batteries with new ones. Do not mix old and new batteries - two are required, size AAA, LR03 or SUM-4.

Please dispose of used batteries in accordance to local regulations.

Tuner Buttons:

INFO – To access broadcast information

MENU – to choose options

AUTO TUNE – finds previous/next broadcast

MONO/STEREO – Option for weaker FM stations

Amplifier Buttons:

PHONO – Selects Phono input

CD – Selects CD input

BAL2 – Selects balanced input 2

TUNER – Selects TUNER input

BAL1/HT – Selects balanced input 1/ HT

AUX/HT – Selects AUX/HT input

USB – Selects USB input

TAPE – Select TAPE input

CD Buttons:

TIME – Displays Track Time/Time remaining

0-9 Buttons – Used to select track numbers

CHECK – Check pre programmed tracks

PROGRAM – Programs selection and order of tracks

INTRO – Player plays first 10 seconds of each track

REPEAT – Repeats whole disk or selected tracks

SEARCH – Fast forward/backward through track

STOP – Stop playing/Eject CD

BAND – Selects DAB or FM

STORE – Stores station as preset

SELECT – To choose preset/DAB station

PRESET ↑ ↓ selects preset

TUNE ↑ ↓ steps up/down band

VOLUME UP/DOWN – sets volume level

MUTE – Mutes speaker outputs until pressed again

CLEAR – Clears selected pre programmed track

A/B Sets repeat start/end to repeat section of track

SHUFFLE – Plays back tracks in random order

TRACK – Next/previous track

PAUSE/PLAY – Stop/start CD playback

STARTING

Once all connections are made, switch on the unit, using the **POWER** button front of the power supply unit. The power LED will light on the supply, as well as the backlit display on the main unit. The display will indicate the product name will show but outputs are muted, for about fifteen seconds, so no sound will be heard from the speakers.

Once the 15 seconds is up the volume and selected source input will indicate unit is settled, and ready for use.

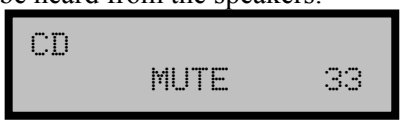
VOLUME

The volume should be adjusted for normal listening levels. This is done by pressing the volume up/down buttons on the front panel. The volume level is readily identifiable on the display barographs and numeric indicator, in the above example it is set to 33% of the full range.

Adjusting the volume can also be achieved using the remote handset, using the volume up/down buttons (see p. 9).

MUTE (remote only)

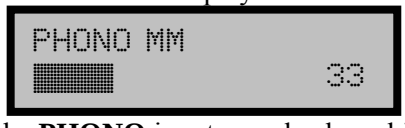
The sound from the speakers may be muted by use of the **MUTE** button on the remote. Press once and **MUTE** will show in the display indicating muted state. No sound will be heard from the speakers.



To return to listening; simply press the **MUTE** button again so **MUTE** is no longer displayed.

PHONO (MM/MC)

To use the phono input, connect turntable cartridge outputs to the phono input RCA sockets (see p.7). Select **PHONO** input using the source up/down buttons until **PHONO** is shown in the display.



Selecting the **PHONO** input can also be achieved using the corresponding button on the remote handset, (see p. 9).

If moving coil cartridge is used, the MM/MC toggle switch on back panel can be used to select MC sensitivity.

The front panel display will then indicate that the unit is setup for MC cartridges.

CD

To use the CD input, connect CD player outputs to the CD input RCA sockets (see p.7). Select **CD** input using the source up/down buttons until **CD** is shown in the display.

Selecting the **CD** input can also be achieved using the corresponding button on the remote handset, (see p. 9).

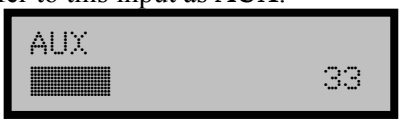
TUNER

To use the tuner input, connect tuner outputs to the tuner input RCA sockets (see p.7). Select **TUNER** input using the source up/down buttons until **TUNER** is shown in the display.

Selecting the **TUNER** input can also be achieved using the corresponding button on the remote handset, (see p. 9).

AUX/HT

To use the **AUX**, as standard input, check the **AUX/HT** switch (back panel) is set to **AUX** position. The display will then refer to this input as **AUX**.



Connect line outs from source to the **AUX** input (see p.7). Select **AUX** input using the source up/down buttons until **AUX** is shown in the display.

To use the **AUX** as **H**ome **T**heatre direct input, move the **AUX/HT** switch to the **HT** position. The display will then refer to the input as **HT**.

Connect line level outputs from home theatre processor to the **AUX/HT** input (see p.7). Volume control is now only possible (for this input) on the external processor.

Please note connecting standard line signals to these inputs in HT mode will cause very loud and damaging signals into the speakers that cannot be controlled through the volume control. Please ensure correct AUX/HT switch position before using this input.

Selecting the **AUX/HT** input can also be achieved using the remote handset, using the corresponding button (see p. 9).

TAPE

To use the **TAPE** input, connect external source to the **TAPE** input (see p.7). Select **TAPE** input using the source up/down buttons until **TAPE** is shown in the display.

Selecting the **TAPE** input can also be achieved using the corresponding button on the remote handset, (see p. 9).

USB

To use the USB input, connect computer USB output to the USB socket (see p.7). Select **USB** input using the source up/down buttons until **USB** is shown in the display.

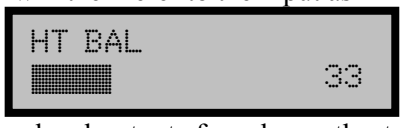
Selecting the **USB** input can also be achieved using the corresponding button on the remote handset, (see p. 9). Note: the USB legend will flash if no USB signal is detected.

BALANCED INPUT 1/HT

To use the balanced input (1), connect source unit's balanced outputs to the LEFT and RIGHT balanced inputs (1) (see p.7). Select balanced input 1 using the source up/down buttons until **BAL1** is shown in the display.

Selecting the balanced input 1 can also be achieved using the corresponding button on the remote handset, (see p. 9).

To use the **BAL1** as a balanced **H**ome **T**heatre direct input, move the **BAL/HT** switch to the **HT** position.
The display will then refer to the input as **HT BAL**.



Connect line level outputs from home theatre processor to the **BAL1** input (see p.7). Volume control is now only possible (for this input) on the external processor.

Please note connecting standard line signals to these inputs in HT mode will cause very loud and damaging signals into the speakers that cannot be controlled through the volume control. Please ensure correct AUX/HT switch position before using this input

BALANCED INPUT 2

To use the balanced input (2), connect source unit's balanced outputs to the LEFT and RIGHT balanced inputs (2) (see p.7). Select balanced input 2 using the source up/down buttons until **BAL2** is shown in the display.

Selecting the balanced input 2 can also be achieved using the corresponding button on the remote handset, (see p. 9).

RECORDING AND TAPE MONITOR

To record to tape, (or alternatively CD recorder, DAT, minidisk or computer soundcard analogue input) connect the tape out to the tape recorder line in. Press the input selector button on the front panel or remote control. This source will now be routed to the A1 FBP **TAPE OUT** for recording by tape deck.

The recording can be directly monitored through the loudspeakers by pressing the **TAPE MONITOR** button. Press again to return back to the input being recorded.

On some 3 head tape decks there is an additional tape/source switch which should be in the tape position for this to work. If in doubt, please consult tape deck operating manual.

Note - adjustment of the volume control has no effect on the recording level.

Computer setup for input USB input

A good quality USB A to B cable is required to connect the unit to the computer.

Plug the B (square) end into the socket in the back of the A1 FBP.

Plug the A (rectangle) end into a free USB socket on the computer.

The computer should detect the new hardware and install a generic driver automatically (No setup or driver disk required).

CD, MP3, WAV files played on any software should now play through the A1. This device has been designed to work with PC Windows 98, ME, 2000, XP as well as Apple Macintosh OS X.

Please note:

This device is a high speed serial data processor, and by its nature, requires a very high volume of USB bandwidth. It will benefit greatly from being the only device connected on its USB 'bus'. Sharing the same bus with other devices may cause unwanted artefacts such as dropouts or temporary loss of signal. This especially includes the use of the A1 FBP on a USB hub/splitter alongside other USB components.

PC users

Check the computer has picked up the device and is currently using it by clicking: (most Windows versions)

- Start
- Settings
- Control panel
- Sounds and Multimedia
- Audio

Check that "USB audio device" appears under PREFERRED AUDIO DEVICE tab

A second mixer will now be available which will be the default mixer whenever the A1 FBP is plugged in. Use this mixer to select the source or adjust levels if required.

Mac users

Check the computer has picked up the device and is currently using it by clicking: (MAC OS X)

- System preferences
- Hardware
- Sound

Check that "USB audio DAC" is selected under the OUTPUT tab.

If the computer's warning sounds/chimes are to played through the A1 FBP, make sure it is selected under the SOUND EFFECTS tab too.

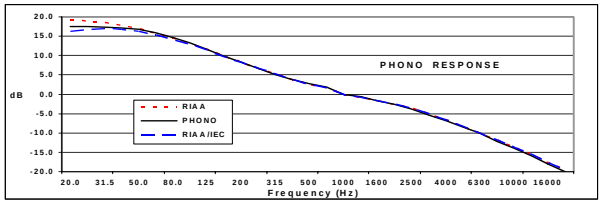
Note: USB may also be selected as an output in some individual programs.

Basic problem-solving with an amplifier is similar to troubleshooting other electrical or electronic equipment. Always check the most obvious possible causes first, such as the following examples:

Problem	Probable Cause	Remedy
No power when **POWER** button is pressed	Mains power plug is not fully inserted into rear socket or mains socket 5-way XLR power lead present or plugged in correctly	Plug in securely. Check XLR power lead is plugged securely into both power supply unit and Preamplifier
No sound	Mute function is still active Wrong connections between input sources and the unit Volume turned down	Press the **MUTE** button on the remote control to cancel. Check audio input lead connections and correct source is selected Check volume level
Sound cut out	Loose connection	Check input and output connections When all has been double-checked reduce volume and switch unit back on.
Hum	Audio connector plug not fully pushed in Cable Fault Unsuitable Cable (e.g. cable grounds not connected)	Insert plug securely Check cable is connected at both ends. N.B. Some esoteric cables have internal wiring intentionally disconnected/modified. For best results on all inputs analogue AND digital, please use good quality screened coax; signal ***and*** screens both separately connected at both ends.
Loud sound, unable to control volume	Input set to "HT".	Check switch settings and see pages 10/11 for more information on the HT inputs and setup
No audio output, or too low level output	Incorrect or missing connections	Check connections and make sure they are secure.
No audio output from USB input	USB Cable not connected USB Driver not selected (PC or MAC)	Check connections and make sure they are secure. See P.9 ***PC users*** or ***Mac users*** section
Not detected when connected to USB USB indicator flashing	USB Cable faulty or disconnected USB not working/enabled on computer Correct USB drivers not installed (can happen particularly with factory- preinstalled Windows operating systems)	Check and/or replace cable Check USB port functions with another device. Please check with the computer manufacturer. Enquire about USB driver or update.
Dropouts in sound (USB input)	Shared USB port with another device Computer busy with another application Computer low on resources	Avoid sharing the USB port with other devices, if possible. At times an application (program) may intervene, sometimes invisibly e.g. a virus scanner. When this happens, computer resources are temporarily used up, and playback may falter. This is not a fault. Try running fewer applications if possible.
Remote control does not work	Amplifier's **POWER** switch is set to off One or more batteries fitted the wrong way round Batteries are flat Remote control is not pointed directly towards the front panel of the amplifier Interference from another source	Set switch to on Insert batteries correctly Change batteries for a new set Ensure there is no obstruction between the remote control and amplifier front. Lighting such as fluorescent, incandescent, or even sunlight contains large amounts of infra red radiation. Ensure such sources are not shining directly on the infra red window as this could swamp the signal from the remote control. Also check the system and any other nearby remotes for stuck buttons
Remote control range has greatly reduced	Batteries are running out	Change batteries for a new set.

If none of these actions affect a cure, please contact the dealer, or an authorised Musical Fidelity service agent. Remember; never open the case of the A1, as this will invalidate the guarantee.

Output:		Phono RCA	XLR Balanced
	Maximum Voltage,	9.5Vrms	19Vrms
		26Vpeak to peak	52V peak to peak
	Pre-out impedance	47Ω	47Ω
Line input:	THD + N, 20Hz to 20 kHz	<0.005%	<0.004%
	Signal / noise ratio	-96dB 'A' wtd.	-96dB 'A' wtd.
	Input sensitivity for full output, (volume maximum)	2.2Vrms	4.4Vrms
	Input impedance	75KΩ	150KΩ
	Overload margin	12dB	12dB
	Channel separation	>95dB	>96dB
	Frequency response	20Hz-100kHz +0,-1.1dB	20Hz-100kHz +0,-1.0dB
Phono input:	Cartridge type	MM/MC	
	Phono input response	RIAA+IEC, see graph	
	Signal/noise ratio	-81dB A-wtd.	
	Input sensitivity	3mV (MM) 440µV (MC)	
	Input impedance	47K ohms	
	Overload margin	29dB	



Connections: (Main unit)	Line level inputs	4 pairs line level RCA connectors 2 pairs XLR (female) balanced line level inputs 1 pair phono (MM or MC selectable) level RCA connectors
	Line level outputs	1 pair RCA preamp line outputs (level controlled by volume) 1 pair XLR (male) balanced outputs
	Tape outputs	1 pair RCA tape line outputs (fixed level)
	Digital inputs:	1 USB 1.1 (32, 44, 48kHz sample rates) type B connection for computer/pda
	Power input:	5 pin XLR (from PSU, supplied)
Power requirement:	100 / 115 / 230Volts AC 50 / 60Hz (factory pre-set),	15W maximum

Accessories:	A1 FBP Power Supply Unit	Matching power supply unit	1 off
	Mains lead	10 Amp IEC type	1 off
	Power Supply lead	5 way male to female XLR	1 off
	Remote control	A1, universal	1 off
	Batteries	Size LR03 or AAA, manganese alkaline type	2 off

Dimensions:	Preamplifier Unit		
	440mm	17 ⅓ inches	wide
	77mm	3 inches	high inc. feet
	290mm	11 ½ inches	deep inc. terminals
	Power supply Unit		
	440mm	17 ⅓ inches	wide
	77mm	3 inches	high inc. feet
	290mm	11 ½ inches	deep
	Units combined in shipping carton		
	536mm	21 inches	wide
	390mm	15 ⅓ inches	high
	385mm	15 ¼ inches	deep

Weight:	4.75 Kg	10 ½ lbs	Preamp unit, unboxed
	4.95 Kg	10 ¾ lbs	Power Supply Unit, unboxed
	14.95 Kg	33 lbs	In shipping carton, with all accessories

Musical Fidelity reserves the right to make improvements which may result in specification or feature changes without notice.

RELEASE	DATE	CHANGES
Issue 1	20th May 2008	1st issue